

**IN THE ABSTRACT:**

Kindly delete the current abstract and substitute the following.

**ABSTRACT:**

Methods for expressing a functional heteromeric taste receptor that responds to sweet taste stimuli are provided. These methods comprise the co-expression of T1R2 and T1R3 nucleic acid sequences in a host cell that desirably further expresses a G protein that couples therewith, e.g.,  $G_{\alpha 15}$ ,  $G_{\alpha 16}$  or gustducin. In preferred embodiments, the host cells will be mammalian cells or *Xenopus* oocytes. These nucleic acid sequences are expressed constitutively or under inducible conditions. In preferred embodiments the expression methods will use HEK-293 cells that also stably express  $G_{\alpha 15}$ . These methods give rise to heteromeric receptors and compositions containing that are useful in assays for identifying novel sweeteners and sweetness modulators.